UNITED STATES PATENT AND TRADEMARK OFFICE

NOTICE OF ALLOWANCE AND FEE(S) DUE

48500	7590	08/16/2010

SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

EXAMINER
CERVETTI, DAVID GARCIA

ART UNIT	PAPER NUMBER
2436	

DATE MAILED: 08/16/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,730	12/04/2003	Daniel J. Daily	4366-149	1751

TITLE OF INVENTION: DYNAMIC SYSTEM OF AUTONOMOUS PARSERS FOR INTERPRETING ARBITRARY TELECOMMUNICATION EQUIPMENT STREAMS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$0	$0	$1510	11/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

48500   7590   08/16/2010

SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

_____ (Depositor's name)

_____ (Signature)

_____ (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,730	12/04/2003	Daniel J. Daily	4366-149	1751

TITLE OF INVENTION: DYNAMIC SYSTEM OF AUTONOMOUS PARSERS FOR INTERPRETING ARBITRARY TELECOMMUNICATION EQUIPMENT STREAMS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$0	$0	$1510	11/16/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
CERVETTI, DAVID GARCIA	2436	713-201000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE   (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (**Please first reapply any previously paid issue fee shown above**)

☐ A check is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.   ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____   Date _____

Typed or printed name _____   Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,730	12/04/2003	Daniel J. Daily	4366-149	1751

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48500	7590	08/16/2010	CERVETTI, DAVID GARCIA

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2436	

DATE MAILED: 08/16/2010

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 854 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 854 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
Notice of Allowability	10/728,730	DAILY ET AL.
	Examiner	Art Unit	
	David García Cervetti	2436	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *7/21/10*.

2. ☒ The allowed claim(s) is/are *1,2,4,6 and 8-31*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:
        1. ☐ Certified copies of the priority documents have been received.
        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the
           International Bureau (PCT Rule 17.2(a)).
    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .
    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
        Paper No./Mail Date _____ .
    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)
1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
    Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
    of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
    Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____ .

/David García Cervetti/
Primary Examiner, Art Unit 2436

DETAILED ACTION

1.   Applicant's amendment filed 7/21/2010 has been fully considered.

2.   Claims 1-2, 4, 6, and 8-31 are pending and have been examined. Claims 3, 5,

and 7 have been canceled.

Response to Amendment

3.   The provisional Double Patenting rejection is withdrawn in view of the Terminal

Disclaimer filed on 7/21/10.

Terminal Disclaimer

4.   The terminal disclaimer filed on 7/21/10 disclaiming the terminal portion of any

patent granted on this application which would extend beyond the expiration date of US

Patent 6,374,261 has been reviewed and is accepted. The terminal disclaimer has been

recorded.

EXAMINER'S AMENDMENT

5.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

6.   Authorization for this examiner's amendment was given in a telephone interview

with Doug Swartz on 8/11/2010.

1. (Currently Amended) A system for parsing an arbitrary input stream,

comprising:

a plurality of <u>processor executable</u> parsers operable to parse an input stream,

each parser corresponding to a unique set of grammar rules;

a <u>processor executable</u> parser selection agent operable to receive the input

stream and select a subset of the plurality of <u>processor executable</u> parsers to parse the

input stream, wherein the input stream comprises a plurality of differing input structures

and wherein the selected subset of <u>processor executable</u> parsers produce multiple

parser outputs; and

[[an]] <u>a processor executable</u> encoding agent operable to convert the multiple

parser outputs to a common grammar, wherein the <u>processor executable</u> parser

selection agent and plurality of <u>processor executable</u> parsers are configured in a factory

pattern and wherein the input stream comprises a plurality of telecommunication

messages from a plurality of telecommunication components, each telecommunication

message having a plurality of message headers comprising differing types of

information.

4. (Currently Amended) The system of Claim 1, wherein the <u>processor</u>

<u>executable</u> parser selection agent is operable to provide to a client, in response to a

parse request, at least one of a parser output and an indication when at least some of

the input stream is not successfully parsed and wherein the <u>processor executable</u>

parser selection agent, prior to selection of the subset of <u>processor executable</u> parsers,

is not informed in advance of the source or input structure associated with the at least

some of the input stream.

6. (Currently Amended) A system for parsing an arbitrary input stream,

comprising:

a plurality of <u>processor executable</u> parsers operable to parse an input stream,

each <u>processor executable</u> parser corresponding to a unique input structure;

a <u>processor executable</u> parser selection agent operable to receive the input

stream and select a subset of the plurality of <u>processor executable</u> parsers to parse the

input stream, wherein the input stream comprises a plurality of differing input structures

and wherein the selected subset of <u>processor executable</u> parsers produce multiple

parser outputs corresponding to the plurality of differing input structures and differing

grammars; and

[[an]] <u>a processor executable</u> encoding agent operable to convert the multiple

parser outputs to a common grammar, wherein the input stream comprises fault

information, the fault information being related to at least one of an alarm and an error,

the fault information comprising first fault information related to a first event and in a first

format and second fault information related to a second event discrete from the first

event and in a second format different from the first format and wherein the <u>processor</u>

<u>executable</u> encoding agent is operable to convert the first and second formats to a

common format, wherein the first and second fault information uses different characters

to refer to a same type of event and the encoding agent is further operable to convert

the different characters to a common set of characters to refer to the event.

8. (Currently Amended) A method for parsing an arbitrary input stream, comprising:

(a) receiving, from a telecommunication device, an input stream, the input stream comprising information defined by at least first and second input structures;

(b) providing, by a <u>processor executable</u> parser selection agent and substantially simultaneously, a common portion of the input stream to each of a plurality of <u>processor executable</u> parsers, the plurality of <u>processor executable</u> parsers corresponding to differing sets of grammars;

(c) receiving, by the <u>processor executable</u> parser selection agent, output from each of the plurality of <u>processor executable</u> parsers;

(d) based on the plurality of outputs of the plurality of <u>processor executable</u> parsers:

(i) in a first mode selecting, by the <u>processor executable</u> parser selection agent, a first output from a first <u>processor executable</u> parser that corresponds to the first input structure and a second output from a second parser that corresponds to the second input structure; and

(ii) in a second mode, selecting, by the <u>processor executable</u> parser selection agent, a first <u>processor executable</u> parser corresponding to the first input structure to parse one or more first segments of the input stream and a second <u>processor executable</u> parser corresponding to the second input structure to parse one or more second segments of the input stream; and

(e) converting a first parser output from the plurality of <u>processor executable</u>

parsers into a second parser output corresponding to a common grammar.

12. (Currently Amended) The method of Claim 8, wherein the input stream is free

of an embedded tag indicating a source and/or input structure associated with the input

stream and wherein step (b) comprises:

identifying one or more tokens in the input stream; and

based on the identified one or more tokens, selecting the at least one of a

plurality of <u>processor executable</u> parsers.

13. (Currently Amended) A method for parsing an arbitrary input stream,

comprising:

(a) receiving an input stream, the input stream comprising information defined by

at least first and second input structures;

(b) providing, substantially simultaneously, a common portion of the input stream

to each of a plurality of <u>processor executable</u> parsers, the plurality of <u>processor</u>

<u>executable</u> parsers corresponding to differing sets of grammars, wherein step (b)

comprises:

determining<u>, by a</u> <u>processor executable parser selection agent</u>, for each of

the at least one of a plurality of <u>processor executable</u> parsers whether a match or

a not match condition exists, a match condition indicating that a selected

<u>processor executable</u> parser has successfully parsed a selected segment of the

input stream and a no match condition indicating that the selected <u>processor</u>

<u>executable</u> parser has not successfully parsed the selected segment of the input

stream; and

applying<u>, by the processor executable parser selection agent</u>, the

following rules:

when, for a parsed segment, only one match condition is found to

exist, not generating an error message;

when, for a parsed segment, a match condition is not found to exist,

generating an error message; and

when, for a parsed segment, multiple match conditions are found to

exist, generating an error message;

(c) receiving output from each of the plurality of <u>processor executable</u> parsers;

and

(d) based on the outputs of the plurality of <u>processor executable</u> parsers,

performing<u>, by the processor executable parser selection agent,</u> at least one of:

(i) selecting a first output from a first <u>processor executable</u> parser that

corresponds to the first input structure and a second output from a second parser that

corresponds to the second input structure; and

(ii) selecting a first <u>processor executable</u> parser corresponding to the first

input structure to parse one or more first segments of the input stream and a second

<u>processor executable</u> parser corresponding to the second input structure to parse one

or more second segments of the input stream.

14. (Currently Amended) The method of Claim 9, wherein a third <u>processor</u> <u>executable</u> parser successfully parses a first portion of the input stream to form a third output and the first <u>processor executable</u> parser successfully parses the first portion of the input stream to form a first output and further comprising:

determining<u>, by the processor executable parser selection agent,</u> which of the first and third outputs most likely corresponds to the first portion.

16. (Currently Amended) The method of Claim 8, wherein the first <u>processor</u> <u>executable</u> parser produces a first output and the first output is a parse tree and further comprising:

recursively evaluating at least some of the nodes in the parse tree to identify nodes requiring additional parsing.

17. (Currently Amended) The method of Claim 8, wherein the first <u>processor</u> <u>executable</u> parser produces a first output and the first output is a parse tree and further comprising:

recursively examining at least some of the nodes in the parse tree to identify nodes of interest to a client.

18. (Currently Amended) The method of Claim 8, wherein the first <u>processor</u> <u>executable</u> parser produces a first output and the first output is a parse tree and wherein at least first and second nodes of the parse tree have differing formats and further comprising:

iteratively traversing a plurality of the nodes of the parse tree to locate nodes of interest, the nodes of interest comprising the first and second nodes; and

converting each of the located nodes of interest to a standard format.

20. (Currently Amended) The method of Claim 8, wherein each of the plurality of processor executable parsers corresponds to a unique set of tokens and grammar rules.

21. (Currently Amended) The method of Claim 8, wherein each of the plurality of processor executable parsers corresponds to a unique set of attribute grammars.

22. (Currently Amended) A non-transient computer readable medium containing processor executable instructions, wherein a processor executing the instructions performs the steps of Claim 8.

23. (Currently Amended) A method for parsing computer generated information, comprising:

receiving a stream of information, the stream being generated by one of a plurality of possible different telecommunication components, wherein each telecommunication component generates a stream corresponding to a unique input structure and wherein each of a plurality of differently structured segments of the stream is free of an embedded tag indicating a corresponding telecommunication component and/or input structure for the respective segment;

comparing, by a processor executable heuristic parser, at least a portion of the stream with multiple different sets of tokens to provide a subset of tokens identified in the at least a portion of the stream, each set of tokens corresponding to a unique input structure;

based on the subset of tokens, heuristically identifying, by the <u>processor</u>

<u>executable</u> heuristic parser and from among at least one of a plurality of possible input

structures and a plurality of possible telecommunication components, at least one of an

input structure corresponding to the at least a portion of the stream and a

telecommunication component for the at least a portion of the stream; and

thereafter parsing the stream based on the identified at least one of an input

structure and telecommunication component.

26. (Currently Amended) The method of Claim 23, wherein the stream of

information comprises graphical information, wherein the comparing, heuristically

identifying, and parsing steps are performed by a <u>processor executable</u> parser, wherein

the <u>processor executable</u> parser is not provided with a flag external to the input stream

to identify or assist in the identification of the at least one of an input structure

corresponding to the at least a portion of the stream and a telecommunication

component for the at least a portion of the stream.

27. (Currently Amended) A <u>non-transient</u> computer readable medium containing

processor executable instructions, wherein, when the instructions are executed by a

processor, the processor performs the steps of Claim 23.

28. (Currently Amended) ~~An autonomous heuristic parser~~<u>A system</u>, comprising:

an input operable to receive a stream of information, the stream being generated

by one of a plurality of possible different telecommunication components, wherein each

telecommunication component generates a stream corresponding to a unique input

structure; and

a <u>processor executable</u> parser operable to:

(a) compare at least a portion of the stream with multiple different tokens to provide a subset of tokens identified in the at least a portion of the stream, each token corresponding to a unique input structure;

(b) based on the subset of tokens, identify, from among at least one of a plurality of possible input structures and a plurality of possible telecommunication components, at least one of an input structure corresponding to the at least a portion of the stream and a telecommunication component for the at least a portion of the stream; and

(c) parse the stream based on the identified at least one of an input structure and telecommunication component, wherein the <u>processor executable</u> parser is not provided with an input structure identifier, other than the corresponding input structure itself, either in or external to the at least a portion of the input stream to identify or assist in the identification of the at least one of the respective input structure corresponding to the at least a portion of the stream and a telecommunication component for the at least a portion of the stream.

29. (Currently Amended) The ~~parser~~ <u>system</u> of Claim 28, wherein each of the tokens has a corresponding parser expressing a set of syntactical and/or semantical relationships relating to the respective token and wherein the <u>processor executable</u> parser is further operable, for each token in the subset of tokens, to (d) to invoke a corresponding method.

30. (Currently Amended) The ~~parser~~ <u>system</u> of Claim 29, wherein the <u>processor executable</u> parser is further operable to (e) assign, by an invoked method, a set of flags

with a corresponding set of values depending on the presence or absence of a

syntactical and/or semantical relationship, wherein the values of the flags are used to

heuristically identify the at least one of an input structure corresponding to the at least a

portion of the stream and a telecommunication component for the at least a portion of

the stream.

31. (Currently Amended) The ~~parser~~ system of Claim 28, wherein the stream of

information comprises graphical information, wherein the <u>processor executable</u> parser is

not provided, by another telecommunication component, with a flag external to the input

stream to identify or assist in the identification of the at least one of an input structure

corresponding to the at least a portion of the stream and a telecommunication

component for the at least a portion of the stream.

Allowable Subject Matter

7.   Claims 1-2, 4, 6, and 8-31 are allowed.

8.   Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

9.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to David García Cervetti whose telephone number is (571)272-5861. The examiner can normally be reached on Monday-Tuesday and Thursday-Friday.

10.   If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on (571)272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

11.   Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David García Cervetti/
Primary Examiner, Art Unit 2436